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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
. 09/821,319	03/29/2001	Richard J. Qian	PW 0275028	2274	
909	7590 05/09/2003				
PILLSBURY WINTHROP, LLP			EXAMINER		
P.O. BOX 105 MCLEAN, V			NGUYEN, CINDY		
		·	ART UNIT	PAPER NUMBER	
			2171	11	
			DATE MAILED: 05/09/2003	DATE MAILED: 05/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
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	Office Action Summary	09/821,319	QIAN, RICHARD J.				
•	Office Action Summary	Examiner	Art Unit				
	The MAILING DATE of this communication	Cindy Nguyen	ith the correspondence address				
Period fo		appears on the cover sheet w	iui uie correspondence address				
THE I - External after - If the - If NC - Failu - Any II	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thir riod will apply and will expire SIX (6) MOI ratute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communicat BANDONED (35 U.S.C. § 133).	ion.			
1)[🛛	Responsive to communication(s) filed on	<u>03/29/01</u> .					
2a)□		This action is non-final.					
3)	Since this application is in condition for all closed in accordance with the practice und			s is			
Dispositi	ion of Claims						
•	Claim(s) <u>1-30</u> is/are pending in the applica						
	4a) Of the above claim(s) is/are with	drawn from consideration.					
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-30</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction ar	nd/or election requirement.					
• •	ion Papers						
	The specification is objected to by the Exam		to the building Evenings				
10)区	The drawing(s) filed on 29 March 2001 is/ar						
11)	Applicant may not request that any objection t The proposed drawing correction filed on	=					
' '/	If approved, corrected drawings are required in		alsapproved by the Examiner.				
12)	The oath or declaration is objected to by the	· •					
	under 35 U.S.C. §§ 119 and 120						
•	Acknowledgment is made of a claim for for	eian priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
· · · · · ·	☐ All b)☐ Some * c)☐ None of:						
7.	1. Certified copies of the priority docum	nents have been received.					
	2. Certified copies of the priority documents have been received in Application No						
* 0	3. Copies of the certified copies of the paper application from the International See the attached detailed Office action for a	priority documents have beer I Bureau (PCT Rule 17.2(a)).	received in this National Stage				
	Acknowledgment is made of a claim for dom	•		ation)			
	The translation of the foreign language						
	Acknowledgment is made of a claim for dom	•					
Attachmen	_	-					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	-·			
			 				

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DETAILED ACTION

This is in response to application filed on 03/29/01 in which claims 1-30 are presented for examination.

1. Information Disclosure Statement

The information disclosure statement filed on 03/29/01 is in compliance with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609. Because it has been placed in the application file, and the information referred to therein has been considered as to the merits.

2. Abstract

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract is not narrative.

3. Specification

Content of Specification

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data shet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.

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(c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.

(d) Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.

Or alternatively, <u>Reference to a "Microfiche Appendix</u>": See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.

- (e) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
 - (1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) Description of the Related Art including information disclosed under 37

 CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (g) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.

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- (h) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet (37 CFR 1.52(b)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).
- disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (k) <u>Sequence Listing</u>, See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

There is no Brief Summary of the Invention. Correction is requested.

4. Claim Objections

Claim 11 is objected to because of the following informalities: "statistic. based" at line 4, the period "." need to be deleted. Appropriate correction is required.

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5. Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-12, 14, 15 and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Ellenby et al. (U.S 5742521) (Ellenby).

Regarding claims 1 and 11, Ellenby disclose: An automatic statistics generation and management system and method, comprising:

a head-end system (45, fig. 4 and corresponding text, Ellenby) to receive input data of a sporting event (col. 5, lines 6-10, Ellenby) and to generate semantic information (col. 11, lines 7-10, Ellenby) and geometric information (col. 10, lines 42, Ellenby);

a statistics generation system (46, fig. 4 and corresponding text, Ellenby) to generate sporting statistics based on at least on of the semantic information and the geometric information received from the head-end system (col. 11, lines 44-64, Ellenby); and

a statistics management system (45, fig. 4 and corresponding text, Ellenby) to store (col. 8, lines 56-57, Ellenby) and manage the sporting statistics received from the statistics generation system (col. 9, lines 23-25, Ellenby).

Regarding claim 2, all the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Ellenby disclose: further including storing the sporting statistics (col. 11, lines 21-36, Ellenby).

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Regarding claim 3, all the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Ellenby disclose: further including analyzing the sporting statistics (col. 7, lines 59 to col. 8, lines 14, Ellenby).

Regarding claims 4 and 12, most of the limitations of this claim have been noted in the rejection of claims 1 and 11 above, respectively. In addition, Ellenby disclose: further including providing the input data from at least one video camera located at the sporting event (col. 7, lines 49-59, Ellenby).

Regarding claim 5, all the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Ellenby disclose: further including receiving a query for the sporting statistics (col. 9, lines 50-65, Ellenby).

Regarding claim 6, all the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Ellenby disclose: further including: processing the input data to generate tracking information (col. 13, lines 27-30, Ellenby); and processing the tracking information to generate the semantic information and the geometric information (col. 14, lines 32-53, Ellenby).

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Regarding claim 7, all the limitations of this claim have been noted in the rejection of claim 1 above. In addition, Ellenby disclose: further including analyzing the sporting statistics to discover patterns and predict future trends (col. 24, lines 33-49, Ellenby).

Regarding claims 8 and 20, most of the limitations of this claim have been noted in the rejection of claims 1 and 11 above, respectively. In addition, Ellenby disclose: wherein the input data is video (col. 7, lines 39-48, Ellenby).

Regarding claims 9 and 21, most of the limitations of this claim have been noted in the rejection of claims 1 and 11 above, respectively. In addition, Ellenby disclose: wherein the input data is from a radio frequency (RF) beacon (col. 9, lines 34-49, Ellenby).

Regarding claims 10 and 22, most of the limitations of this claim have been noted in the rejection of claims 1 and 11 above, respectively. In addition, Ellenby disclose: wherein the input data is textual information (col. 8, lines 1-14, Ellenby).

Regarding claim 14, all the limitations of this claim have been noted in the rejection of claim 11 above. In addition, Ellenby disclose: wherein the head-end system includes:

a tracking system to receive and process the input data to generate tracking information(col. 13, lines 27-42, Ellenby); and

a production system to receive and process the tracking information to generate the semantic information and the geometric information (col. 7, lines 49-58, Ellenby).

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Regarding claim 15, all the limitations of this claim have been noted in the rejection of claim 11 above. In addition, Ellenby disclose: wherein the statistics generation system includes: a model manager (stadium model, col. 8, line 66, Ellenby) to access the semantic information and the geometric information (col. 8, lines 65 to col. 9, lines 25, Ellenby); and a statistics generator to receive and process at least one of the semantic and geometric information from the model manager to generate the sporting statistics (col. 12, lines 27-45, Ellenby).

7. Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 13, 16-19 and 23-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ellenby et al. (U.S 5742521) (Ellenby) in view of Kelts (U.S 2002/0112237).

Regarding claim 13, all the limitations of this claim have been noted in the rejection of claim 11 above. In addition, Ellenby disclose: the statistics management system to support query applications from a user interface (col. 9, lines 41-49, Ellenby). However, Ellenby didn't disclose: further including a gateway connected to the statistics management system to support query applications from a user interface. On the other hand, Kelts discloses: a gateway connected to the statistics management system to support query applications from a user

interface (910, fig. 9 and corresponding text). Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in the art to include a gateway in the system of Ellenby as taught by Kelts. The motivation being to enable the users to communicate via

network to provide information and service to the end user.

Regarding claim 16, all the limitations of this claim have been noted in the rejection of claim 11 above. In addition, Ellenby/Kelts disclose: wherein the statistics management system includes: a statistics database to store and manage the sporting statistics (col. 8, lines 28-40, Ellenby); and a data miner (516, fig. 5 and corresponding text, Kelts) to extract and analyze the sporting statistics stored in the statistics database (p. 12, paragraph 0116, Kelts). Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in the art to include a data miner in the system of Ellenby as taught by Kelts. The motivation being to enable the user to access the system to estimate and analyze information associated with the use of display system data.

Regarding claim 17, all the limitations of this claim have been noted in the rejection of claims 16 and 7 above. It is therefore rejected as set forth above.

Regarding claim 19, all the limitations of this claim have been noted in the rejection of claim 11 above. In addition, Ellenby/Kelts disclose: wherein the sporting statistics are saved in a predefined Extended Markup Language (XML) schema (fig. 6 and corresponding text, Kelts).

Thus, at the time invention was made, it would have been obvious to a person of ordinary skill in

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the art to include XML schema in the system of Ellenby as taught by Kelts. The motivation being to enable the user to process data information and convert information to XML format to display information over Internet.

Regarding claim 23, all the limitations of this claim have been noted in the rejection of claims 14-16 above. It is therefore rejected as set forth above.

Regarding claims 18 and 30, all the limitations of these claims have been noted in the rejection of claims 11 and 23 above, respectively. In addition, Ellenby/Kelts disclose: wherein the semantic information is an Extended Markup Language (XML) file (p. 12, paragraph 0126).

Regarding claim 24, all the limitations of this claim have been noted in the rejection of claims 23 and 12 above. It is therefore rejected as set forth above.

Regarding claim 25, all the limitations of this claim have been noted in the rejection of claims 23 and 13 above. It is therefore rejected as set forth above.

Regarding claim 26, all the limitations of this claim have been noted in the rejection of claims 23 and 7 above. It is therefore rejected as set forth above.

Regarding claim 27, all the limitations of this claim have been noted in the rejection of claims 23 and 8 above. It is therefore rejected as set forth above.

Regarding claim 28, all the limitations of this claim have been noted in the rejection of claims 23 and 9 above. It is therefore rejected as set forth above.

Regarding claim 29, all the limitations of this claim have been noted in the rejection of claims 23 and 10 above. It is therefore rejected as set forth above.

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9. Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Fraker et al. (U.S 5434789). GPS Golf diagnostic system.

McDonough et al. (U.S 2002/0072815 A1). Portable information system and method for

golf play enhancement, analysis and scorekeeping.

Herz (U.S 6029195). System for customized electronic identification of desirable

objects.

10. Contact Information

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Cindy Nguyen whose telephone number is 703-305-4698. The examiner can

normally be reached on M-F: 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet

Metjahic can be reached on 703-308-1436. The fax phone numbers for the organization where this

application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7240

for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is 703-305-3900.

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Cindy Nguyen May 2, 2003

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